



IO-Link master ICE2-8IOL-K45P-RJ45-EX

- Web-based configuration of module and IO-Link devices
- Integrated IODD storage for more than 100 IODDs
- Downloadable module configuration
- EtherNet/IP, Modbus/TCP and OPC UA support
- Pluggable push-in connectors
- Certified for use in Zone 2 and Class I, Division 2

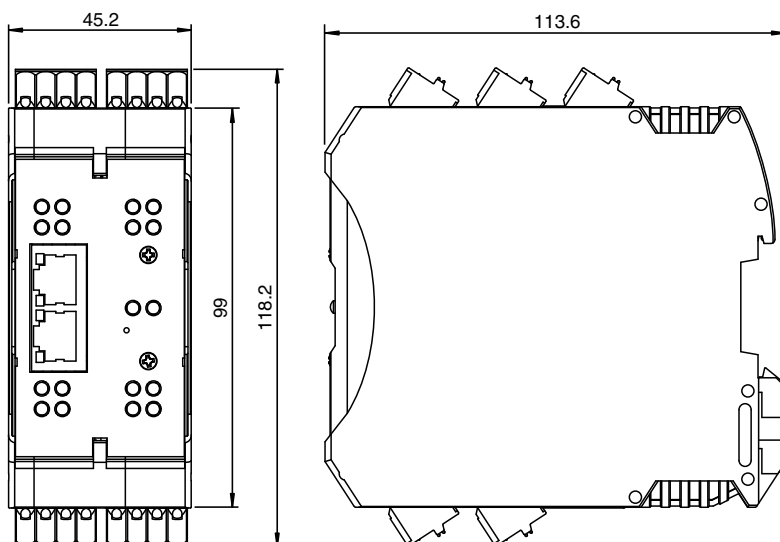
EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, push-in connectors



Function

The module is an EtherNet/IP fieldbus module with 8 type A IO-Link master ports according to the IO-Link standard V1.1. The module serves as an interface between the controller of an EtherNet/IP fieldbus system and IO-Link devices at the field level. The integrated web server and IODD interpreter enables complete configuration of the module and attached IO-Link devices without the need for special software tools. Information regarding the status of the module is also displayed and network parameters such as the IP address and subnet mask can be configured. The module is capable of storing all configuration enabling stand-alone usage without a higher-level PLC. MultiLink simultaneously provides data access via different communication protocols like EtherNet/IP, Modbus/TCP and OPC UA to multiple controllers. A pluggable push-in connector supplies power enabling a current rating of up to 3.7 A. The inputs and outputs are equipped with pluggable, push-in connectors. Connection to the fieldbus is achieved using a standard RJ45 Ethernet connector. Status information for each channel is displayed via LEDs as a diagnostic function.

Dimensions



Technical Data

Indicators/operating means

LED indication	see manual
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Electrical specifications

Release date: 2026-06-11 Date of issue: 2026-06-11 Filename: 70195316_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

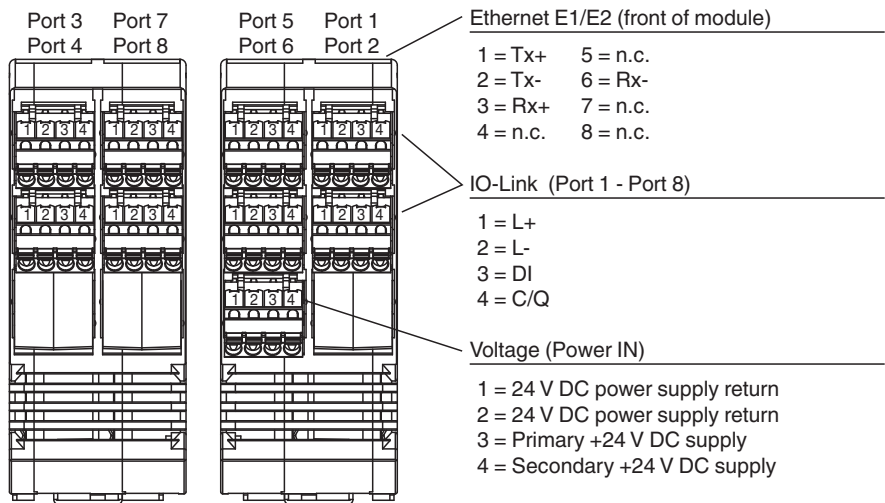
Rated operating voltage	U _e	18 ... 30 V DC
General information		Redundant power
Nominal voltage	U _N	24 V DC
Nominal current		3.7 A
Current consumption		typ. 155 mA
Current loading capacity		Total current 3.2 A per module
Interface 1		
Interface type		Industrial Ethernet
Physical		RJ45
Protocol		EtherNet/IP + Modbus TCP + OPC UA + MQTT (including Sparkplug B support) Modbus max PDI: 33 times / sec OPC UA max PDI update rate: 20 times / sec MQTT max PDI update rate: 10 times / sec
Transfer rate		10/100 Mbps
Inputs/Outputs		
Number/Type		8 x IO-Link Class A (X1 - X8) Configurable as: Max. 8 IO-Link and 8 digital inputs Max. 16 digital inputs Max. 8 digital inputs and 8 digital outputs short-circuit protected
Sensor supply		max. 200 mA per port via L+ (pin 1)
Output current	I _e	max. 200 mA per port Via C/Q (pin 4)
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61000-6-2:2005 , EN 61000-6-4:2007 + A1:2011 , EN 61131-2:2007
Standard conformity		
Degree of protection		EN 60529
Fieldbus standard		Type 1 according to IEC 61131-2, EN 61131-9
Ambient conditions		
Ambient temperature		-40 ... 60 °C (-40 ... 140 °F)
Storage temperature		-40 ... 70 °C (-40 ... 158 °F)
Relative humidity		max. 95 %
Altitude		0 ... 2000 m
Shock and impact resistance		15g, 11ms, half-sine
Vibration resistance		5-8Hz, 3.5mm displacement, 8.4-150Hz, 1.0g acceleration
Mechanical specifications		
Degree of protection		IP20
Connection		Power Supply push-in connector Fieldbus RJ45 Inputs/Outputs push-in connectors
Material		
Housing		Polyamide, UL94V-0
Mass		250 g
Dimensions		
Height		118.2 mm
Width		45.2 mm
Length		113.6 mm
Construction type		Cabinet module
Mounting		DIN mounting rail
Data for application in connection with hazardous areas		
Certificate		UL 25 ATEX 3354X
Marking		Ⓔ II 3G Ex ec IIC T4 Gc
Directive conformity		
Directive 2014/34/EU		EN IEC 60079-0:2018 , EN IEC 60079-0:2018/A11:2024 , EN 60079-7:2015 , EN IEC 60079-7:2015/A1:2018
International approvals		

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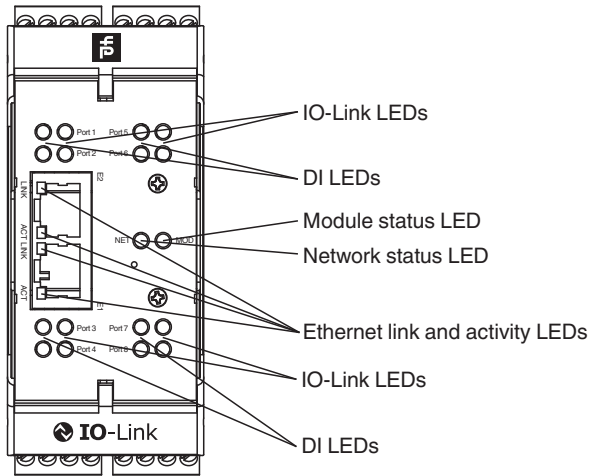
Technical Data

UL approval	E492874
Approved for	Class I, Division 2, Groups A - D T4
IECEEx approval	
IECEEx certificate	IECEEx ULD 25.0005X
IECEEx marking	Ex ec IIC T4 Gc

Wiring Diagram



Assembly



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